Release notes for ENDF/B Development photoat-012_Mg_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=1200,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=1200, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 148 TO 165

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=1200, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=1200, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 148

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1200, MF=23, MT=501 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER 167

3. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1200,\ MF=23,\ MT=502\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 597

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1200, MF=23, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 784

5. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1200,\ MF=23,\ MT=515\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 825

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1200, MF=23, MT=516 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 857

7. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1200,\ MF=23,\ MT=517\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 909

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1200, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 942

9. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1200,\ MF=23,\ MT=534\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=534

SECTION 23/534 NOT IN DIRECTORY

RECORD NUMBER 1120

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1200, MF = 23, MT = 535 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=535 SECTION 23/535 NOT IN DIRECTORY

RECORD NUMBER 1146

11. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1200, MF = 23, MT = 536 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=536 SECTION 23/536 NOT IN DIRECTORY

RECORD NUMBER 1181

12. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1200, MF = 23, MT = 537 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=537 SECTION 23/537 NOT IN DIRECTORY

RECORD NUMBER 1227

13. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1200, MF = 23, MT = 538 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=23, MT=538 SECTION 23/538 NOT IN DIRECTORY

RECORD NUMBER 1274

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1200, MF=27, MT=502 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 1366

15. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1200,\ MF=27,\ MT=504\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 1425

16. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1200, MF=27, MT=505 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 1485

17. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1200, MF=27, MT=506 (0): Directory (b)

ERROR(S) FOUND IN MAT=1200, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 1590

- fudge-4.0 Warnings:
 - 1. generic warning message reaction label 0: Mg + gamma [coherent] / Product: gamma (Error # 0): Warning

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message reaction label 0: Mg + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label 1: Mg + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: Mg + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 9: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 11: photoelectric absorption (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 84.87%

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: Mg + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: Mg + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: $Mg + gamma\ [incoherent]\ /\ Cross\ section:\ (Error\ \#\ 0)$: Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: Mg + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range reaction label 1: Mg + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 4: e- + Mg1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1294.5 eV!

9. Calculated and tabulated thresholds don't agree reaction label 5: e- + Mg2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 89.4599999999999 eV!

10. Calculated and tabulated thresholds don't agree reaction label 6: e-+Mg2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.55 eV!

- 11. Calculated and tabulated thresholds don't agree reaction label 7: e- + Mg2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.24 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 8: e- + Mg3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.89 eV!
- 13. Calculated and tabulated thresholds don't agree summedReaction label 9: total / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!
- 14. Calculated and tabulated thresholds don't agree $summedReaction\ label\ 10:\ pair\ product\ /\ Cross\ section:\ (Error\ \#\ 0):\ Threshold\ mismatch$
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!
- 15. Calculated and tabulated thresholds don't agree summedReaction label 11: photoelectric absorption / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.89 eV!